

Rigid transformations

1

- a Translation b Rotation c Reflection

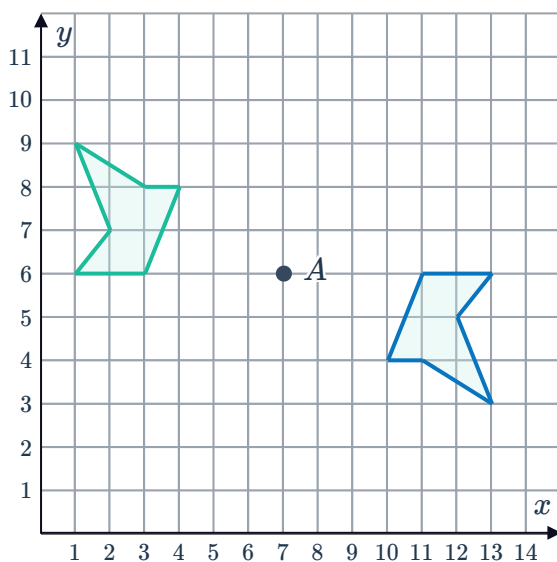
2

- a 2 units up b 2 units right and 1 unit up
c 4 units up d 7 units down
e 5 units left and 3 units down f 4 units right and 2 units up
g 2 units down h 1 unit left and 1 unit down

3

- a Yes b Yes c Yes d No
e No

4



5

- a b
i 270° ii 90° i 180° ii 180°

6

- a Translation b A translation 3 units right and 2 units up.

7

- a Reflection b A reflection across the y -axis.

8

- a Rotation
b A rotation of 270° anticlockwise around the origin.

Congruence

10 $\angle RQP$

11 $\angle BAC$

12 $\angle ACB$

13 $\angle QRP$

14

a i 8 ii 7 iii 9

b $\triangle XYZ$ congruent to $\triangle ABC$

15

a EF

b $\angle EFD$

c 14 cm

d $\angle BCA$

16 $x = 41^\circ$

17 $x = 7, y = 13$

18 $\angle EFD$

19 DF

Bisectors

20

a Yes

b Yes

c No

d Yes

e No

f No

21

a Scalene

b

i Yes

ii No

iii No

c No

d Not equal

22

a Scalene

c No

b

i No ii No iii Yes

d Not equal

23

a Isosceles

c Yes

b

i No ii Yes iii No

d Equal

24

a Isosceles

c Yes

b

i No ii Yes iii No

d Equal